

Virtual **Community Open House Meetings**

April 11-13, 2023



Virtual Community Meeting

Meet the Speakers:



Laura Kircher
Manager
Stakeholder Engagement
Midwest Region



Adam Dittus
Manager
Bemidji Area Operations



Amanda Schooling
Emergency Response
Midwest Region

Safety & Values Moment



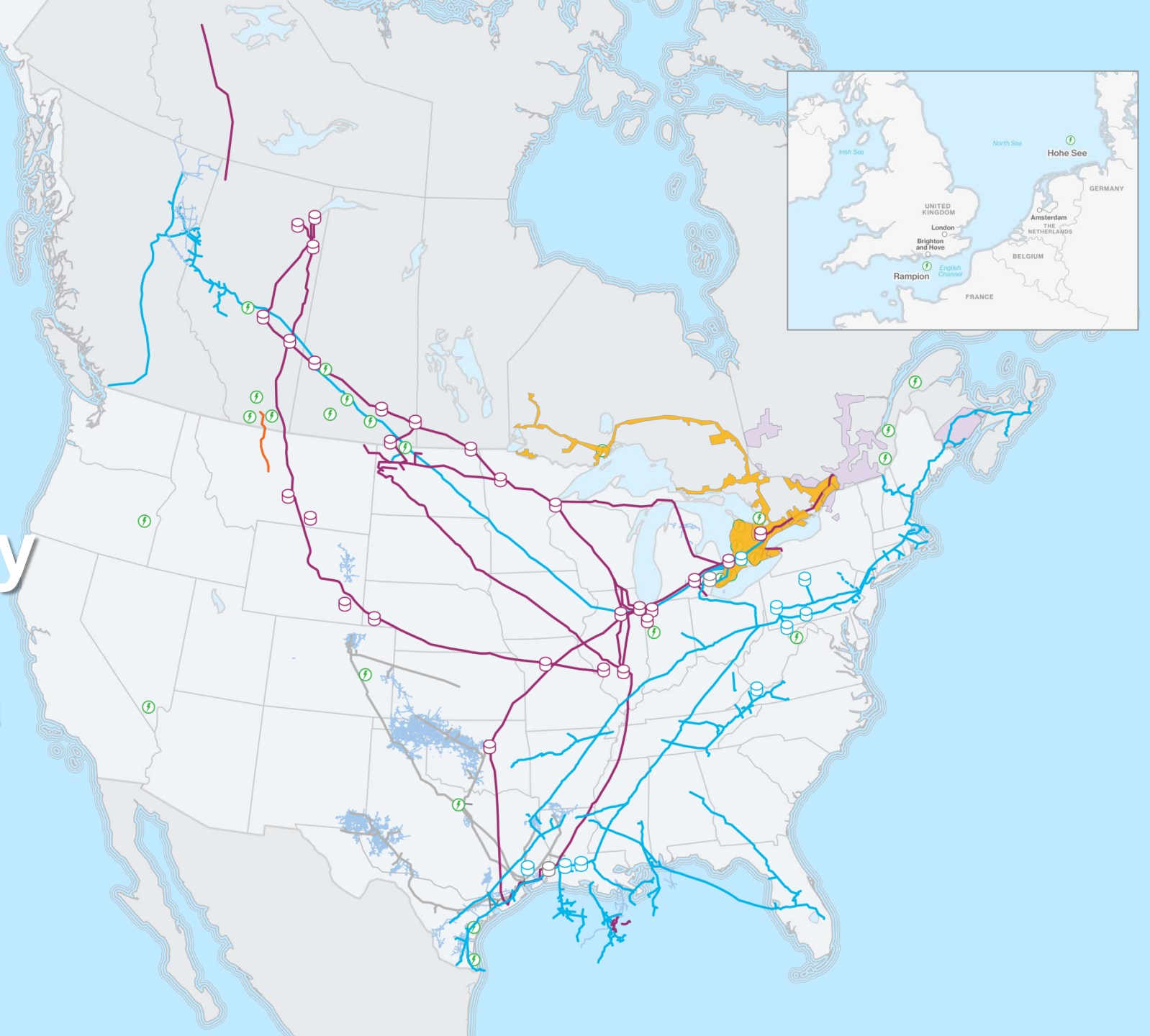
About Enbridge

Delivery and Generation of North American Energy



Enbridge Story

A leading
energy delivery
company in
North America



Delivery and Generation of North American Energy

Energy Infrastructure Leader



~25%

of crude oil transported
in N. America

~20%

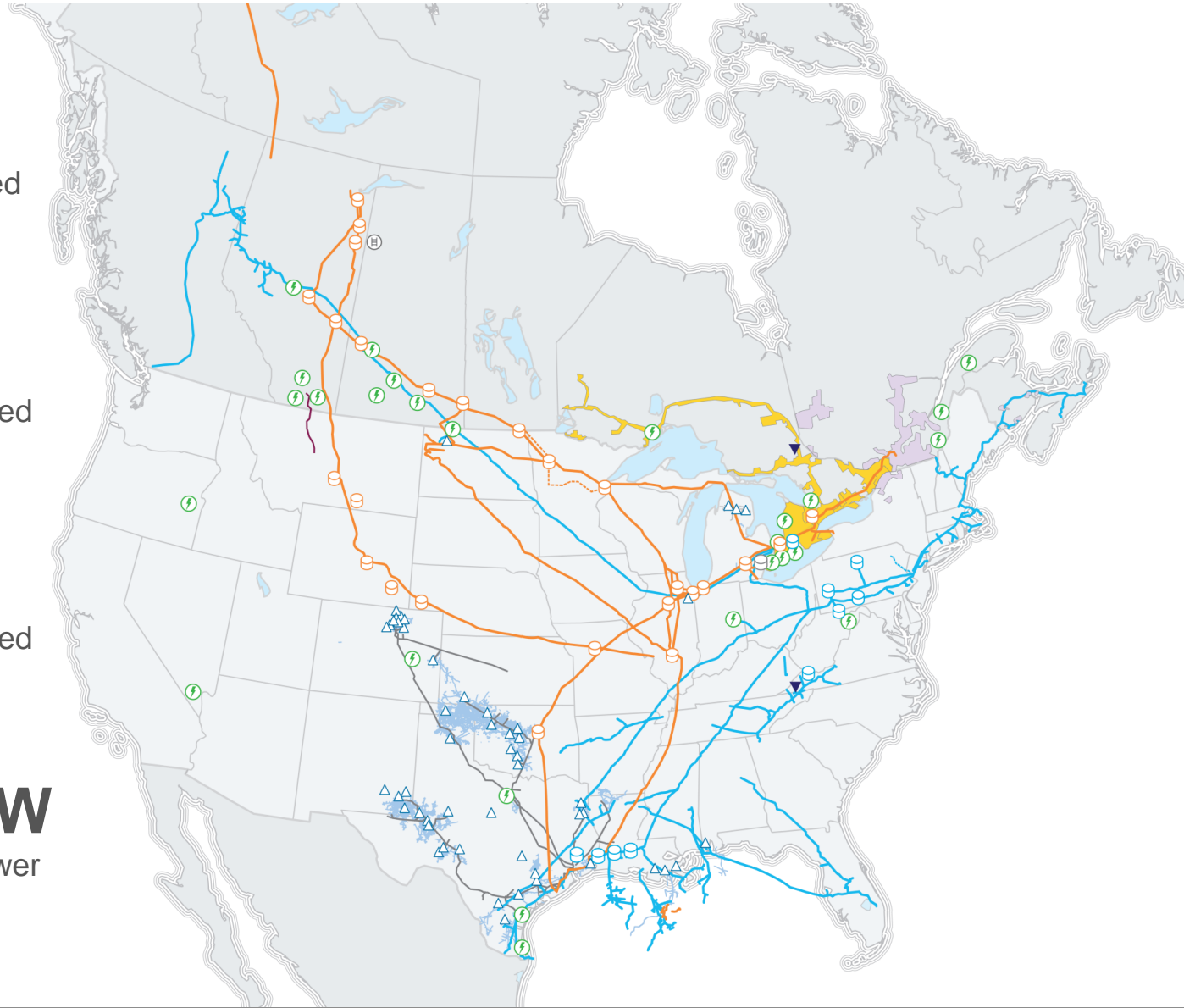
of natural gas consumed
in the U.S.

~2 Bcf/d

of natural gas distributed
in Ontario

5,192+ MW

of gross renewable power
generation



Delivering Crude Oil to Midwest Market and Beyond

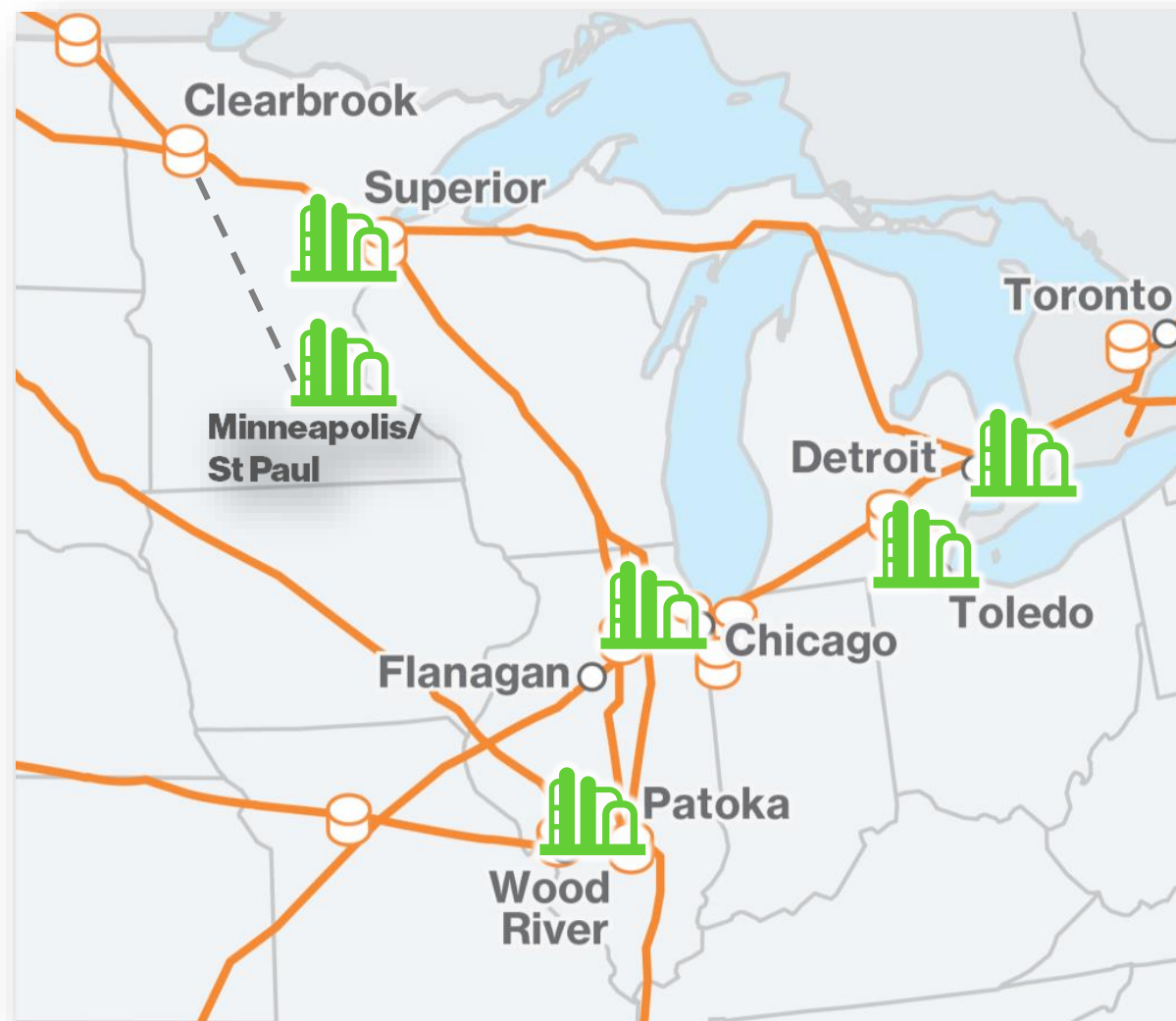
Enbridge: A Vital Link to Energy Supply



Enbridge meets:

~70%

Refining demand
in broader **Midwest**



Uses of Petroleum and the Petroleum Products We Use

Fueling Our Lives



Household & transportation



Energy inputs



Everyday uses of energy



Community Investment In Minnesota



- **\$836,800**
in community investment initiatives across Minnesota in 2022
- **\$411.7 Million**
In capital, operating and administrative expenditures in Minnesota in 2022
- **\$45.4 Million**
In property, corporate income and other taxes paid in Minnesota in 2022
- **\$23 Million**
total wages in 2022 to the 309 employees that live and work in Minnesota

Pipeline Operations, Safety and Maintenance

Pipelines and Facilities

Enbridge in Minnesota



- Line 1**
A 1,098-mile pipeline carrying NGL and light crude from Edmonton, Alberta to Superior, Wis.
- Line 2B**
A 502-mile pipeline from Cromer, Manitoba to Superior, Wis. carrying light crude. Line 2A, a 24" pipeline, originates in Edmonton, Alberta and connects with line 2B in Cromer.
- Line 3***
A 1,097-mile pipeline carrying primarily light crude from Edmonton, Alberta to Superior, Wis. (The existing Line 3 will be deactivated following in service of the Line 3 Replacement).
- Line 4**
A 1,098-mile pipeline carrying a variety of crude oil from Edmonton, Alberta to Superior, Wis.
- Line 13**
A 1,588-mile pipeline carrying diluent from Manhattan, Ill. to Edmonton, Alberta.
- Line 67**
A 999-mile pipeline carrying heavy crude from Hardisty, Alberta to Superior, Wis.
- Line 65**
A 313-mile pipeline carrying a variety of crude oil from Cromer, Manitoba to Enbridge's Clearbrook terminal in Clearbrook, Minn.



- Line 81**
A 283-mile pipeline carrying light Bakken crude oil from Minot, N.D. to Clearbrook, Minn.
- *Line 3 Replacement**
A replacement of 1,031 miles of pipeline from Hardisty, Alberta to Superior, Wis. which will carry a variety of crude oil.
- Alliance Pipeline**
A 2,391-mile natural gas transmission pipeline system from northwestern Alberta to Joliet, IL.

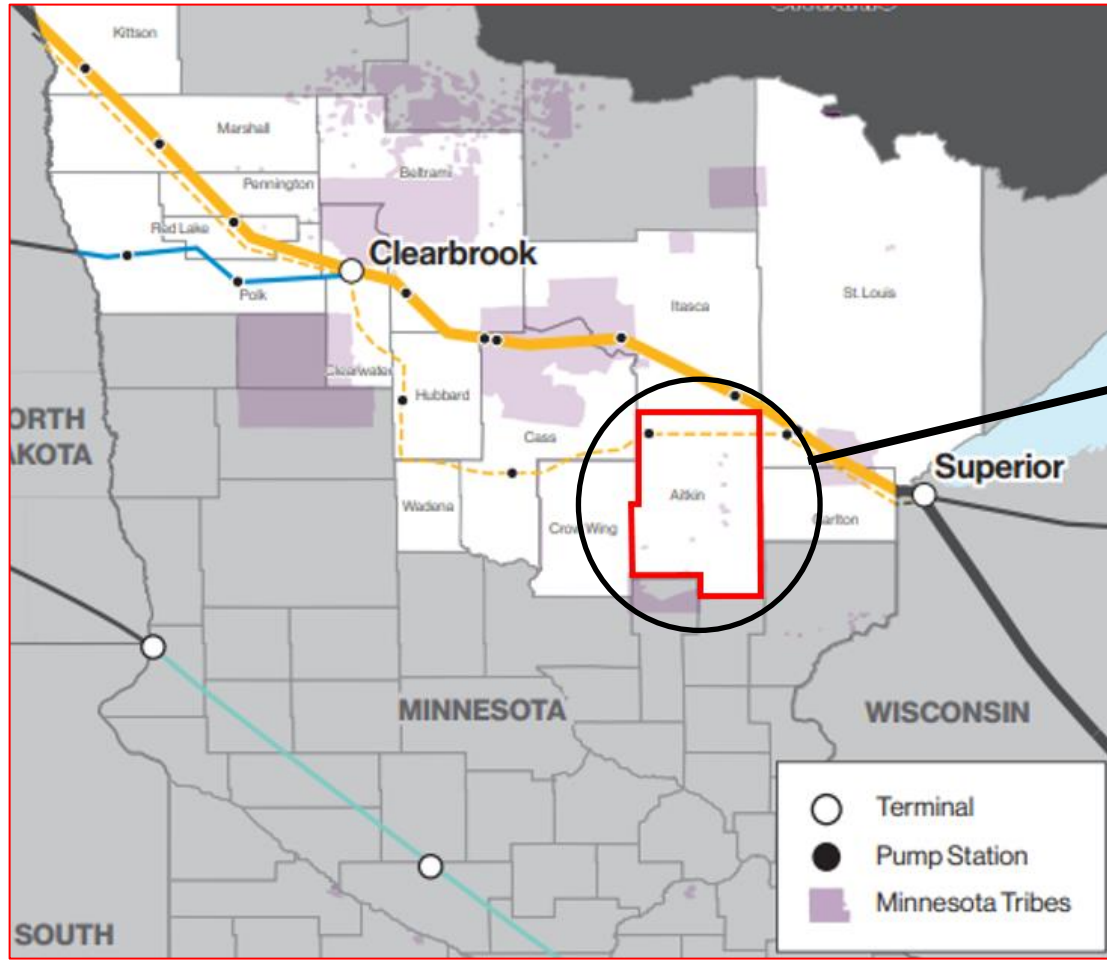
Current Operations	Line 1	Line 2B	Line 3	Line 4
CAPACITY: (Thousands of barrels per day)	237	442	390	796
PIPE SIZE:	18/20 inch	24/26 inch	34 inch	36/48 inch
CONSTRUCTED:	1950	1957	1988	Early 1970s

Current Operations	Line 13	Line 65	Line 67	Line 81
CAPACITY: (Thousands of barrels per day)	180	186	800	210
PIPE SIZE:	20 inch	20 inch	36 inch	18 inch
CONSTRUCTED:	2010	2010	2009	1962

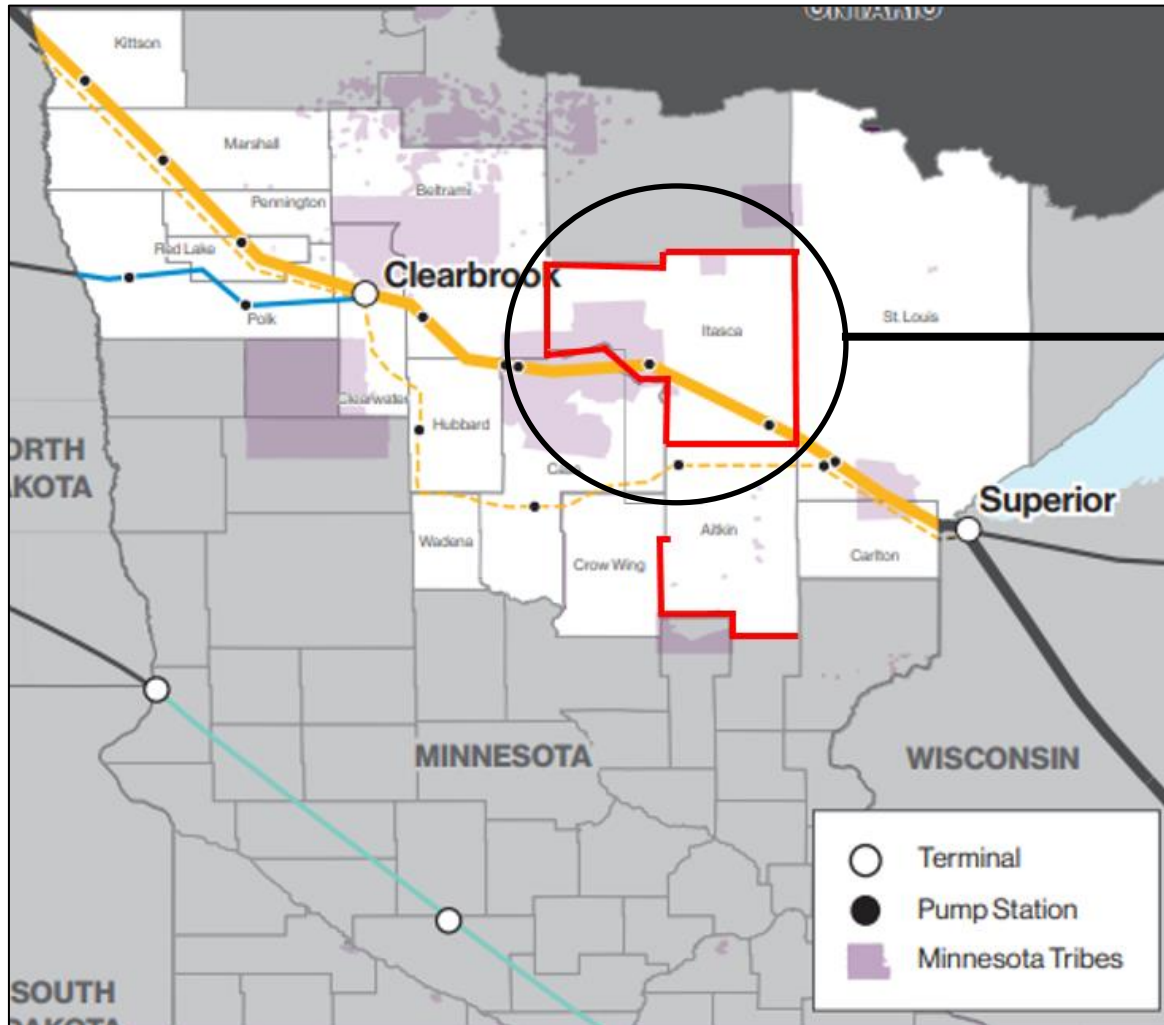
Replacement Project	Line 3 Replacement
CAPACITY: (Thousands of barrels per day)	760
PIPE SIZE:	36 inch
IN SERVICE:	2019

Current Operations	Alliance Pipeline
CAPACITY: (1.6 billion cubic feet per day)	1.6
PIPE SIZE:	36 inch
IN SERVICE:	2000

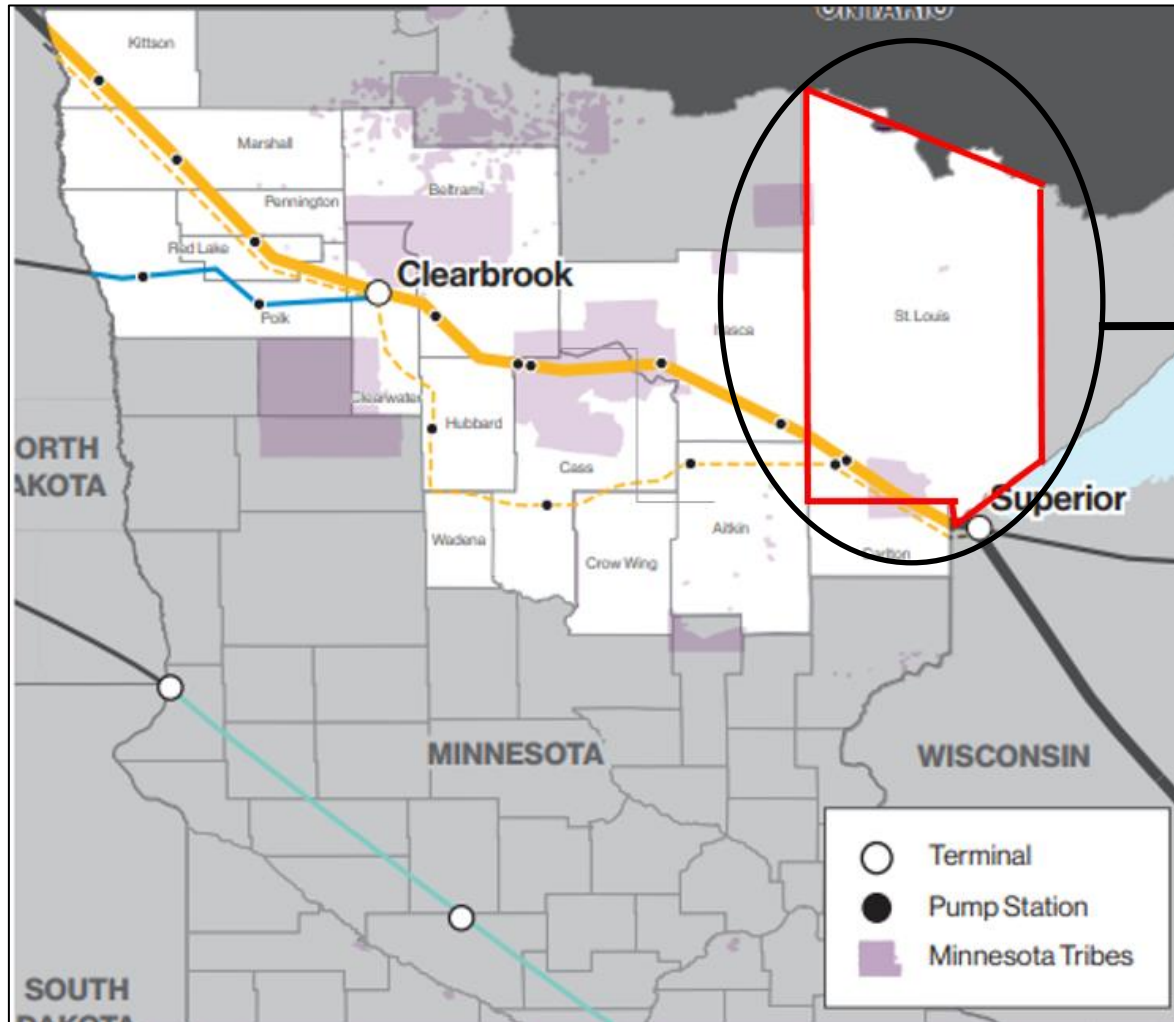
Enbridge in Minnesota- Aitkin County



Enbridge in Minnesota- Itasca County

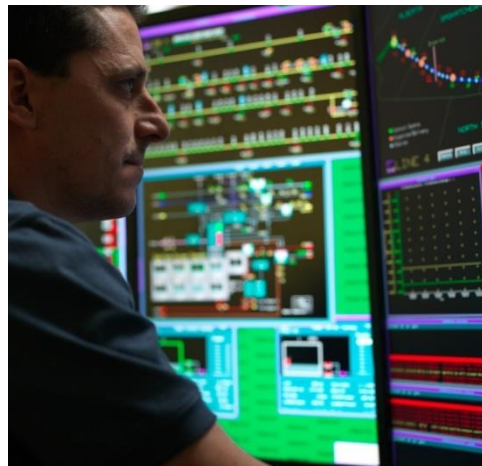


Enbridge in Minnesota- St Louis County



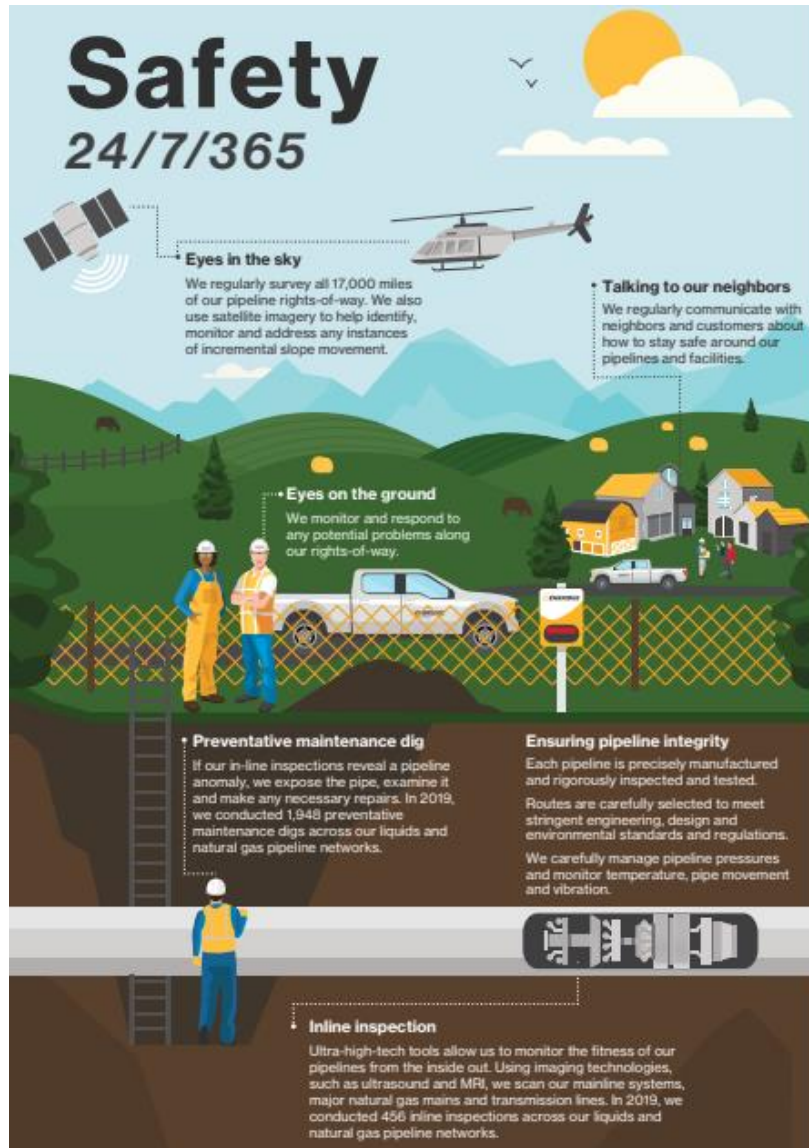
Preventative Pipeline Maintenance

- High quality materials and anti-corrosion coatings
- Cathodic protection and pressure testing
- Inspection programs and preventative maintenance
- Monitoring pipelines and facilities, and maintaining a clear right-of-way



The Safety of our Communities & Employees is our Top Priority

Operational Excellence

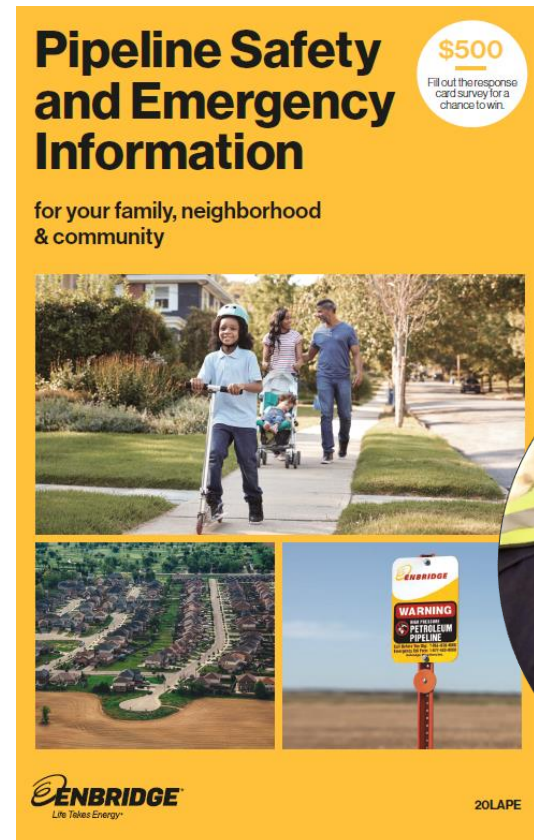


- \$1.3B The amount we spent on programs that help us to maintain the fitness of our systems across our operations in the U.S. and Canada
- 225 drills, exercises and emergency equipment deployments.
- \$60 million spent on equipment and training since 2012

Investing in Pipeline Safety and Operations



- Doubled the size of our Pipeline Control Systems and Leak Detection Departments
- Added staff and enhancing organizational structure at our Pipeline Control Center
- Significantly Enhanced our Public Awareness program
- Proactive and dynamic approach to pipeline integrity management



Our Commitment to the Environment

Planning projects with care

- Field survey crews
- Wildlife protection strategies
- Routing along existing corridors
- Consulting with Tribal Governments and groups

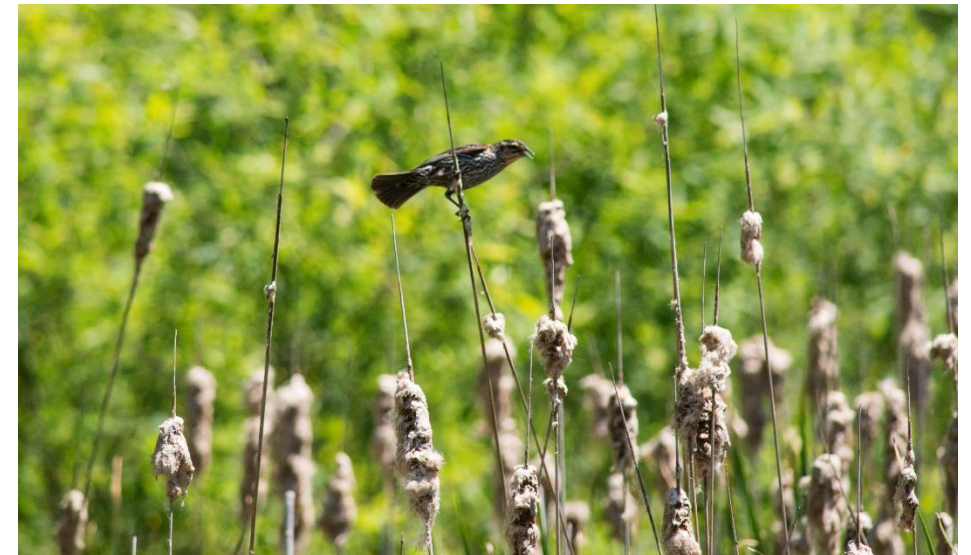
Limiting the construction footprint

- Use existing routes to and from construction sites
- Minimal ground disturbance practices
- Minimize amount of temporary work space
- Wildlife protection initiatives
- Restricting access to project areas

Our post-construction commitment

- Environmental monitoring programs
- Landowner consultations
- Habitat restoration techniques

The safety of people,
and protection of the environment,
is our top priority at Enbridge.



Safety Begins with Public Awareness

For Your Safety and the Safety of Others

Call 811 Before You Dig



- 811 is a free, nationwide number designed to keep you safe when digging or excavating
- Calling 811 is a simple process and is always the safest option anytime you are moving dirt
- You can visit call811.com to find out if online locate requests can be made for the state where you will be working.



**Know what's below.
Call before you dig.**

Did you know? It's never safe to assume the depth of pipelines.

- Pipeline depth can vary or change due to erosion, previous digging projects and other factors
- Some pipelines and related facilities may be located above the ground
- If a product is released from the pipeline, it could damage your property
- If the product released comes into contact with you or ignites, it could cause injuries or even death

Safety Begins with Awareness

- Other products may also be transported by other pipeline operators in this area
- Product transported in the pipeline is always listed on any pipeline marker
- Familiarize yourself with the products and operators in your area



National Pipeline Mapping System NPMS and Enbridge Resources



National Pipeline Mapping System:

www.npms.phmsa.dot.gov

Enbridge Land Services:

MayRinda Cain

Senior Advisor, Lands and Right of Way

Phone: (218) 214-6059

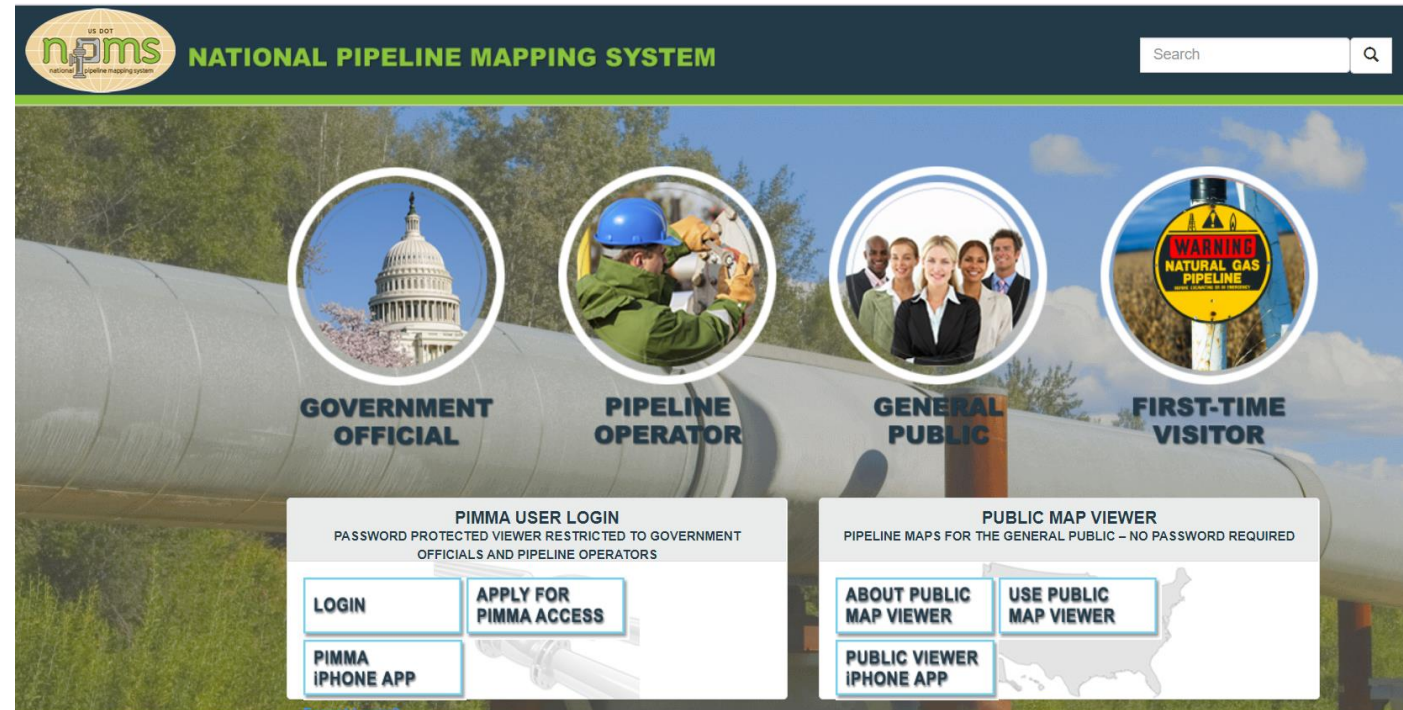
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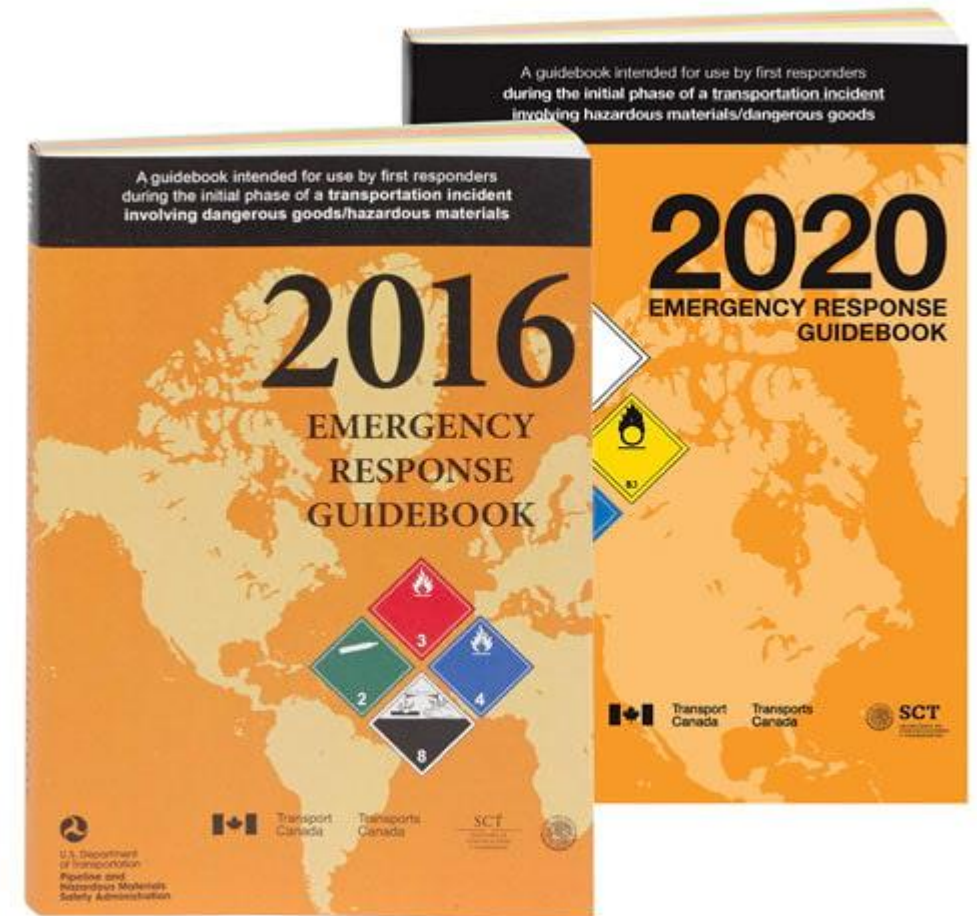


What to Know About the Products We Transport

Product Characteristics

Crude Oil

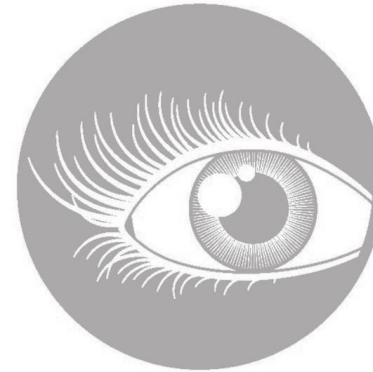
- Unrefined petroleum
- Color can range from yellow to black
- Flows with the land profile
- Can be thick and slow moving or light and able to move quickly
- May contain hydrogen sulfide (H₂S) and benzene



An updated ERG is published every 4 years

What Do I Need to Know?

- You might see
 - Dead or discolored vegetation or snow
 - Colorful sheens on water
 - Stains or pools of hydrocarbons or liquids
 - Dirt being blown into the air
 - Fire coming out of the ground
 - Dead animals or insects
 - Construction or excavation equipment nearby
- You might hear
 - An unusual hissing or roaring sound along a pipeline right-of-way
- You might smell
 - An unusual rotten egg odor



Reporting a Release and Obtaining Information What Do I Need to Know?



To Report a Release:

- Call 911
- Call Enbridge
800-858-5253
- National Response Center
800-424-8802
- EPA, Region 5 - MN
312-353-2318
- Enbridge.com
- www.facebook.com/enbridge
- Twitter: @Enbridge
- Or, epa.gov/emergency-response/emergency-response-my-community

If you can do so safely, turn off any mechanized equipment. Move as far away from the leak as possible in an upwind direction, avoiding contact with escaping liquids and gases.

Emergency Response

Response Planning with Federal, State and Local Interest

Planning Integration



- Enbridge works closely with Federal, State and Local interests during:
 - Training
 - Exercises
 - Plan Development
- Incident Command System
- Unified Command



Response Equipment **Prepared to Respond**



- Enbridge keeps spill response equipment in strategically placed caches throughout our pipeline system.
- In addition, we have contract agreements with federally certified response organizations, also known as Oil Spill Removal Organizations (OSROs), that can assist us in the event of a large spill.



What to do if you suspect a pipeline leak:

- **Make sure you're safe**
- **Call 911**
- **Call Enbridge emergency response number**
- **Follow instructions provided**

How to report a spill to Enbridge, NRC and the EPA:

- **Enbridge: 800-858-5253**
- **NRC: 800-424-8802**
- **EPA, Region 5 (MN): 312-353-2318**

How do you obtain information:

- **Enbridge.com**
- **facebook.com/enbridge**
- **Twitter: @Enbridge**
- **epa.gov/emergency-response/emergency-response-my-community**

Q&A

For more information, please visit:

www.enbridge.com/MinnesotaHandouts

Email us:

EnbridgeInMN@enbridge.com

A copy of this presentation will be available for download at:

www.EnbridgeConnect.com

